

Claims

- [c1] 1. A method for suspending operation of a rotating media during playback or recording comprising: determining a current location of a pickup; storing said current location of said pickup; opening a tracking servo loop; providing a near zero offset for a tracking actuator; and closing said tracking servo loop, when a function is selected.
- [c2] 2. The method of claim 1 further comprising moving said pickup to said current location.
- [c3] 3. The method of claim 1 wherein said function comprises a play function.
- [c4] 4. The method of claim 1 wherein said function comprises a search function.
- [c5] 5. The method of claim 1 wherein said function comprises a record function.
- [c6] 6. The method of claim 1 wherein said step of storing comprises placing said current location in a memory area.
- [c7] 7. The method of claim 2 wherein said step of storing comprises placing said current location in a memory area.
- [c8] 8. The method of claim 7 wherein said step of moving further comprises obtaining said current location from said memory area.
- [c9] 9. The method of claim 1 wherein said tracking servo loop includes a switch.
- [c10] 10. The method of claim 9 wherein said step of opening further comprises opening said switch.
- [c11] 11. The method of claim 10 wherein said step of closing further comprises closing said switch.
- [c12] 12. The method of claim 1 wherein said current location comprises a track ID or a frame ID.
- [c13] 13. The method of claim 12 wherein said track ID or said frame ID is embedded in a track on an optical medium.

- [c14] 14. The method of claim 13 wherein said track is a spiral or a concentric track.
- [c15] 15. The method of claim 14 wherein said optical medium is a substantially circular disc.
- [c16] 16. The method of claim 1 wherein said step of determining further comprises: obtaining a sub-code from an information track; and extracting a track ID from said sub-code.
- [c17] 17. The method of claim 1 wherein said rotating media player comprises an optical disc storage device.
- [c18] 18. The method of claim 17 wherein said optical disc storage device is a CD-ROM, a video laser disc player, a mini-disc player, a CD player, a CD rewritable player, a DVD player, a CD-recordable player, or a magneto-optical player.
- [c19] 19. An apparatus for implementing a pause operation on a media player comprising: a pickup configured to have a current location determined; a storage area for said current location; a tracking servo loop configured to be opened; and a tracking actuator configured to receive a near zero offset, wherein said tracking servo loop is closed when a function is selected.
- [c20] 20. The apparatus of claim 19 wherein said pickup is configured to be moved to said current location.
- [c21] 21. The apparatus of claim 19 wherein said function comprises a play function.
- [c22] 22. The apparatus of claim 19 wherein said function comprises a search function.
- [c23] 23. The apparatus of claim 19 wherein said function comprises a record function.
- [c24] 24. The apparatus of claim 19 wherein said storage area comprises a memory area.
- [c25] 25. The apparatus of claim 20 wherein said storage area comprises a memory area.

- [c26] 26. The apparatus of claim 25 wherein said current location is obtained from said memory area before said pickup is moved.
- [c27] 27. The apparatus of claim 19 wherein said tracking servo loop includes a switch.
- [c28] 28. The apparatus of claim 27 wherein said tracking servo loop is opened by opening said switch.
- [c29] 29. The apparatus of claim 28 wherein said tracking servo loop is closed by closing said switch.
- [c30] 30. The apparatus of claim 19 wherein said current location comprises a track ID or a frame ID.
- [c31] 31. The apparatus of claim 30 wherein said track ID or said frame ID is embedded in a track on an optical medium.
- [c32] 32. The apparatus of claim 31 wherein said track is a spiral or a concentric track.
- [c33] 33. The apparatus of claim 32 wherein said optical medium is a circular disc.
- [c34] 34. The apparatus of claim 19 wherein said current location of said pickup comprises: a sub-code configured to be obtained from an information track; and a track ID configured to be extracted from said sub-code.
- [c35] 35. The apparatus of claim 19 wherein said media player comprises an optical disc storage device.
- [c36] 36. The apparatus of claim 35 wherein said optical disc storage device is a CD-ROM, a video laser disc player, a mini-disc player, a CD player, a CD rewritable player, a DVD player, a CD-recordable player, or a magneto-optical player.
- [c37] 37. A system for suspending operation of a rotating media player during playback or recording comprising: means for determining a current location of a pickup; means for storing said current location of said pickup; means for opening a tracking servo loop; means for providing a near zero offset for a

tracking actuator; and means closing said tracking servo loop, when a function is selected.

- [c38] 38. The system of claim 37 further comprising means for moving said pickup to said current location.
- [c39] 39. The system of claim 37 wherein said function comprises a play function.
- [c40] 40. The system of claim 37 wherein said function comprises a record function.
- [c41] 41. The system of claim 37 wherein said function comprises a search function.
- [c42] 42. The system of claim 37 wherein said means for storing comprises means for placing said current location in a memory area.
- [c43] 43. The system of claim 38 wherein said means for storing comprises means for placing said current location in a memory area.
- [c44] 44. The system of claim 43 wherein said means for moving further comprises means for obtaining said current location from said memory area.
- [c45] 45. The system of claim 37 wherein said tracking servo loop includes a switch.
- [c46] 46. The system of claim 45 wherein said means for opening further comprises means for opening said switch.
- [c47] 47. The system of claim 46 wherein said means for closing further comprises means for closing said switch.
- [c48] 48. The system of claim 37 wherein said current location comprises a track ID or a frame ID.
- [c49] 49. The system of claim 48 wherein said track ID or said frame ID is embedded in a track on an optical medium.
- [c50] 50. The system of claim 49 wherein said track is a spiral or a concentric track.
- [c51] 51. The system of claim 50 wherein said optical medium is a substantially circular disc.

- [c52] 52. The system of claim 38 wherein said means for determining a current location further comprises: means for obtaining a sub-code from an information track; and means for extracting a track ID from said sub-code.
- [c53] 53. The system of claim 37 wherein said rotating media player comprises an optical disc storage device.
- [c54] 54. The system of claim 53 wherein said optical disc storage device comprises a CD-ROM, a video laser disc player, a mini-disc player, a CD player, a CD rewritable player, a DVD player, a CD-recordable player, or a magneto-optical player.
- [c55] 55. A computer program product comprising: a computer usable medium having computer readable program code embodied therein for suspending operation of a rotating media during playback or recording, comprising: computer readable program code configured to cause a computer to determine a current location of a pickup; computer readable program code configured to cause a computer to store said current location of said pickup; computer readable program code configured to cause a computer to open a tracking servo loop; computer readable program code configured to cause a computer to provide a near zero offset for a tracking actuator; and computer readable program code configured to cause a computer to close said tracking servo loop, when a function is selected.
- [c56] 56. The computer program product of claim 55 further comprising computer readable program code configured to cause a computer to move said pickup to said current location.
- [c57] 57. The computer program product of claim 55 wherein said function comprises a play function.
- [c58] 58. The computer program product of claim 55 wherein said function comprises a search function.
- [c59] 59. The computer program product of claim 55 wherein said function comprises a record function.

- [c60] 60. The computer program product of claim 55 wherein said computer readable program code configured to cause a computer to store comprises computer readable program code configured to cause a computer to place said current location in a memory area.
- [c61] 61. The computer program product of claim 56 wherein said computer readable program code configured to cause a computer to store comprises computer readable program code configured to cause a computer to place said current location in a memory area.
- [c62] 62. The computer program product of claim 61 wherein said computer readable program code configured to cause a computer to move further comprises computer readable program code configured to cause a computer to obtain said current location from said memory area.
- [c63] 63. The computer program product of claim 55 wherein said tracking servo loop includes a switch.
- [c64] 64. The computer program product of claim 63 wherein said computer readable program code configured to cause a computer to open further comprises computer readable program code configured to cause a computer to open said switch.
- [c65] 65. The computer program product of claim 64 wherein said computer readable program code configured to cause a computer to close further comprises computer readable program code configured to cause a computer to close said switch.
- [c66] 66. The computer program product of claim 55 wherein said current location comprises a track ID or a frame ID.
- [c67] 67. The computer program product of claim 66 wherein said track ID or said frame ID is embedded in a track on an optical medium.
- [c68] 68. The computer program product of claim 67 wherein said track is a spiral or a concentric track.

- [c69] 69. The computer program product of claim 68 wherein said optical medium is a substantially circular disc.
- [c70] 70. The computer program product of claim 55 wherein said computer readable program code configured to cause a computer to determine further comprises: computer readable program code configured to cause a computer to obtain a sub-code from an information track; and computer readable program code configured to cause a computer to extract a track ID from said sub-code.
- [c71] 71. The computer program product of claim 55 wherein said rotating media player comprises an optical disc storage device.
- [c72] 72. The computer program product of claim 71 wherein said optical disc storage device is a CD-ROM, a video laser disc player, a mini-disc player, a CD player, a CD rewritable player, a DVD player, a CD-recordable player, or a magneto-optical player.